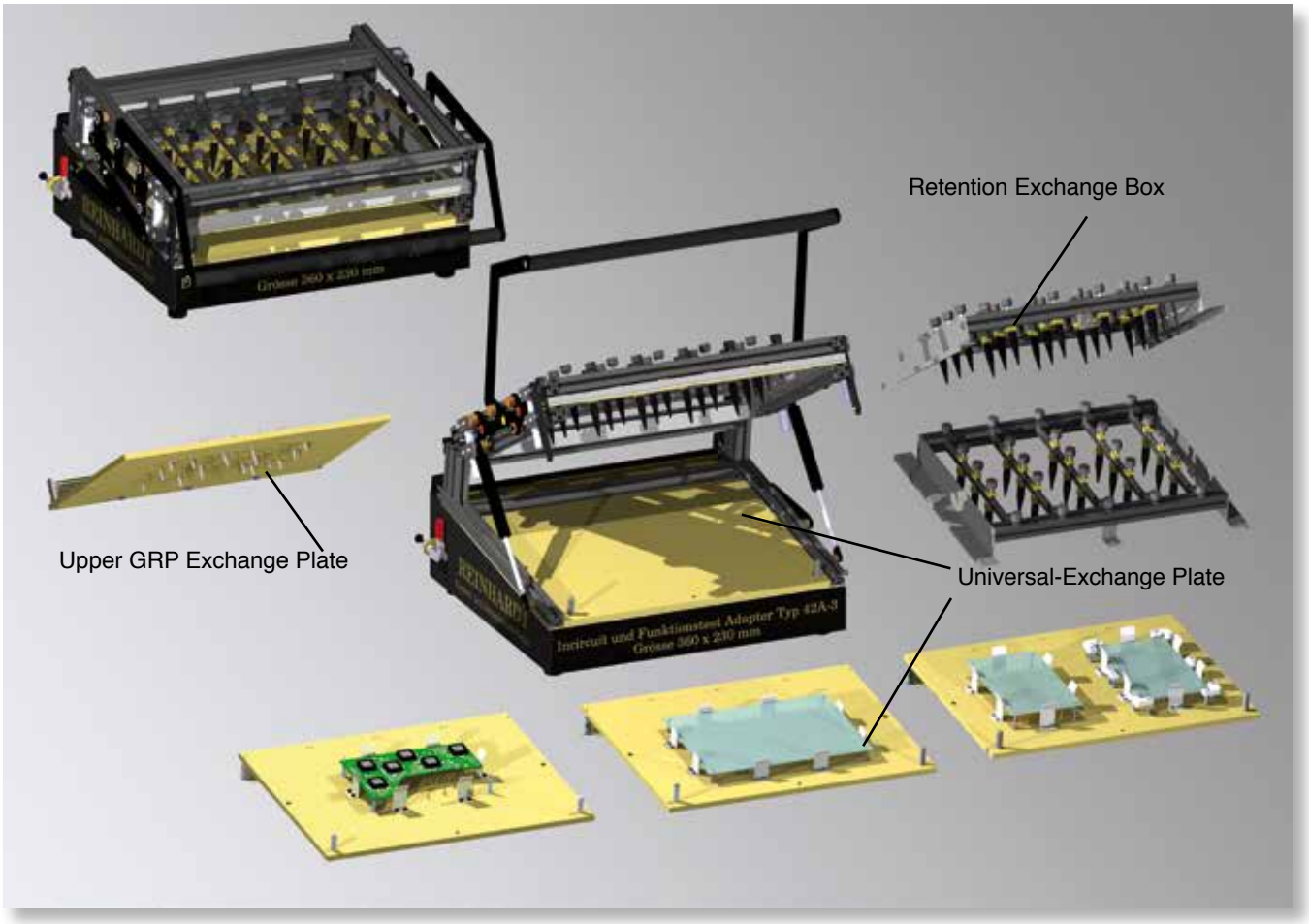
REINHARDT
System- und Messelectronic GmbH

Accessories and Spare Parts for REINHARDT-Test Fixtures



Type 42 Manual Fixture

Manual retention fixture with sloping working area, 4 linear guidings and hinged upper part (machine part), for more than 1,000 spring contact pins at up to 2,000 N pressure force, exchangeable retention box incl. 15 retention pins mounted to 5 receiver rails, and exchange plate

The lower universal exchange plate is only inserted; the upper exchange plate can easily be exchanged for another GFK exchange plate or for a retention box for polarity or IC-polarity test. The complete retention unit can be opened so that there is optimum access to the exchange box from below.

Technical Data:

Shift: 26 mm

Working area: 360 x 230 mm

Overall dimensions of the universal exchange plate GFK 380 x 297 x 8 mm

Overall dimensions of the upper plate SMT Version 3.0: 380 x 297 x 8 mm

Maximum component height: with retention box 45 mm without pocket
with upper plate: 15 mm without pocket

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Type 40A Pneumatic Fixture (Machine part)
Type 40A desk fixture with sloping working area, for a maximum 1,000 standard spring contact pins (about 2,000 N pressure force), with power supply, two-stage retention (In-circuit and Function test), exchangeable retention box incl. 15 retention pins mounted to 5 receiver rails, freely adjustable pneumatic retention device and exchange plate
Technical Data:
Security switch by two-handed operation
Shift: In-circuit test: 20 mm, Functional test 13 mm
Compressed air, not lubricated, 6 bar, 5 Micron
Working area: 360 x 230 mm;
Overall dimensions of the universal exchange plate GFK: 380 x 297 x 8 mm
Overall dimensions of the upper plate SMT Version 3.0: 380 x 297 x 8 mm
Maximum component height: with retention box 45 mm without pocket
with upper plate: 15 mm without pocket

Type 52L Manual Test Fixture for large PCBs – This fixture was designed for an ATS-KMFT 670 with expansion rack and max. 2,000 N. Because of its working area 670 x 462 mm it can be used for very large PCBs such as e. g. backplanes. The exchange plate is contacted in up to 3 rows of 7 connectors each so that up to 1,344 connections to the basic fixture are possible by one plug-in procedure. On the rear, there is the SR18VG REINHARDT-interface for up to 2 x 18 multi-way connectors (64-way).
Technical Data:
Working area: 670 x 462 mm
Overall dimensions of the plate 699 x 529 x 8 mm

Type 62C Manual Desk Fixture – This manual desk fixture with sloping working area is designed for an ATS-KMFT 670 with expansion rack. This fixture with 4 linear guidings is used for max. 2,000 N. The upper part can be opened. On the rear there are up to two (optional) REINHARDT-SR18VG-interfaces for up to 2 x 18 multi-way connectors. The exchange retention box comes with 15 retention pins which are mounted to 5 receiver profiles. Working area of the exchange plate is 360 x 230 mm.
Technical Data:
Working area: 360 x 230 mm
maximum component height: with retention box 45 mm without pocket
with upper exchange plate 15 mm without pocket
Shift: 26 mm

Type 62L Manual Desk Fixture – This fixture has a horizontal working area and was developed for an ATS-KMFT 670 with expansion rack. The fixture with 4 linear guidings is used for max. 2,000 N. On the rear there are two REINHARDT-interfaces SR18VG for up to 2 x 18 multi-way connectors. The exchange retention box comes with 15 retention pins which are mounted to 5 receiver profiles.
Technical Data:
Working area: 360 x 230 mm
maximum component height: with retention box 45 mm without pocket
with upper exchange plate 15 mm without pocket
Shift: 26 mm

Type 100B Manual Test Fixture
With 95 x 95 mm working area and overall dimensions of 230 x 130 x 145 mm, this is our smallest fixture. It is designed for small test items with up to 300 spring contact pins at up to 600 N pressure force and comes with 6 bow retention devices. A 64way connector on the rear is used as interface.
Maximum component height: with retention box 34 mm without pocket
with upper plate: 15 mm without pocket

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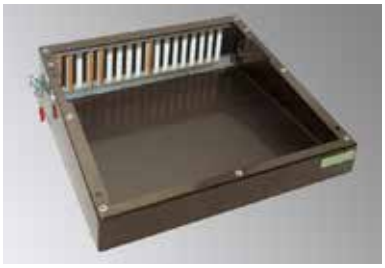
	Type 127 Manual Fixture with horizontal working area and 4 linear guidings for max. 500 contact pins with up to 1,000 N pressure force, working area 191.5 x 172 mm, overall dimensions 217.6 x 230 mm, with lower exchange plate incl. 2 96way interchange connectors (max. 8), retention exchange box with 4 rails and 12 retention pins Technical Data: Working area: 191.5 x 172 mm Overall dimensions of the plate: 217.6 x 230 x 8 mm Maximum component height: with retention box 45 mm without pocket with upper plate 15 mm without pocket
	Type 147 Manual Retention Fixture with horizontal working area and 4 linear guidings, for max. 800 spring contact pins with up to 1,600 N pressure force, with exchange plate incl. 4 96way interchange connectors (max. 8), retention exchange box with 5 receiver rails and 15 retention pins Technical Data: Working area: 360 x 230 mm Overall dimensions of the universal exchange plate GFK: 380 x 297 x 8 mm Overall dimensions of the Upper Plate SMT Version 3.0: 380 x 297 x 8 mm Maximum component height: with retention box 45 mm without pocket with upper plate 15 mm without pocket
	Type 242 Manual Retention Fixture for max. 1,000 contact pins with up to 2000 N pressure force; retention box incl. 15 retention pins mounted to 5 receiver rails, exchange plate; 18VG-interface for max. 18 connectors, 4 64way connectors incl. interface angle Technical data: Working area 360 x 230 mm Overall dimensions of the plate: 380 x 297 x 8 mm Maximum component height: with retention box 45 mm without pocket with upper plate 15 mm without pocket
	**Desk Fixture Box Empty,** incl. 4 connectors for system family KMFT 470/670
	Desk fixture box 127, horizontal working area, with lower exchange plate, overall dimensions 217.6 x 230 mm, incl. 2 96way interchange connectors for ATS-UKMFT 627
	Desk fixture box 147, horizontal working area, with lower exchange plate, overall dimensions 380 x 297 x 8 mm; incl. 4 96way interchange connectors for ATS-UKMFT 627

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Interface Box 85 mm Universal interface box incl. 4 multiway connectors and 8 multiway sockets (64pol., top), one side REINHARDT-interface 18 VG; the Aluminium plate on the opposite side accomodates special connectors of the customer
for system family ATS-ICT 450, ATS-KMFT 470, ATS-KMFT 670, ATS-MFT 500 and ATS-MFT 480

Front

Interface Box 165 mm deep, Universal interface box incl. 4 connectors and 8 sockets (64way, top), one side REINHARDT-interface 18 VG, opposite side aluminium plate
for system family ATS-ICT 450, ATS-KMFT 470, ATS-KMFT 670, ATS-MFT 500 and ATS-MFT 480

Rear

Converter- and Ranging Box 85 mm with interface on both sides, incl. 8 multiway connectors and 16 multiway sockets, 8 of them (64pol.) for connecting a REINHARDT-Universal fixture for ATS-ICT 450, ATS-MFT 500 or ATS-MFT 480 to ATS-KMFT 670

Front

Converter and Ranging Box 165 mm, about 165 mm deep, with interface on both sides, incl. 8 connectors and 16 sockets, 8 of which are on top of the unit (96way), for connecting a REINHARDT-universal exchange fixture of ATS-ICT 450, ATS-MFT 500 or ATS-MFT 480 to ATS-KMFT 670

Rear

Type 41 Fixture box for function test for ranging test system pins to the various types of test items, with 4 multiway connectors (test system side) and 8 multiway sockets (64way), ranging module equipped with 4 connectors, swivel mechanism for accepting the test item, not wired for ATS-KMFT 470/670, ATS-MFT 480 and ATS-MFT 500

Ranging module for Type 41, incl. 4 connectors, Interface Box and Converter and Ranging Box

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	Electric Stamp – Electric stamp for marking tested PCBs with a permanent pen, 30–40 VDC for control, coil resistance ca. 100 Ω, max. shift ca. 7 mm, incl. fixing angle for securing it at the retention exchange box for REINHARDT-fixtures
	Stamp – Pneumatic stamp for marking tested PCBs (permanent), incl. 3/2way valve 24 VDC for control, subject 6 mm diameter, for marking tested components, incl. pressure regulator, ca. 250 mm compressed-air hose, diameter 4 mm, fixing angle for securing it at the retention exchange box for REINHARDT-fixtures and connector plug Festo KS-1/4-S **Spare stamp insert** for pneumatic stamp, subject "ICT" or "OK", in red, blue or black (please indicate subject and colour when you order), subject 6 mm diameter **Kunde Spezialstempel** Spare stamp insert for pneumatic stamp, customer's subject, red, blue or black (please indicate colour when you order), subject 6 mm diameter; Minimum purchase: 10 pieces per subject **Refill ink** (permanent, ca. 14 g) for pneumatic stamp, colours available: red, blue or black (please indicate when you order)
	Electric Circle Marker – The electric circle marker engraves the tested PCBs with a circle of 2 mm diameter. It requires 6–12 VDC for control. With a fixing angle it can be secured at the retention exchange box for REINHARDT-fixtures..
	AKK Pneumatic Cable Clamp with 24 VDC magnetic valve, cable cross sectional area 0,14 mm^2 to 4 mm^2, compressed air 6 bar, dimensions without magnetic valve 14 mm wide, 27 mm high, 57 mm long, ca. 250 mm compressed-air hose, diameter 4 mm, and connector plug Festo KS-1/4-S **AKK 2.5 Pneumatic Cable Clamp** with 24VDC magnetic valve, cable cross sectional area 0.14 mm^2 to 2.5 mm^2, compressed air 6 bar, dimensions without magnetic valve 6 mm wide, 18 mm high, 16.5 mm long, ca. 300 mm compressed-air hose, diameter 4 mm, and connector plug Festo KS-1/4-S
	Pneumatic Actuator, 10 mm shift and 3/2 way valve, 24 V, incl. supply connector, 500 mm hose for compressed air, compressed air 6 bar, pressure regulator and connector plug Festo KS-1/4-S, incl. fixing angle for securing it at the retention exchange box for REINHARDT-fixtures
	Actuator M12 – Electronic actuator for moving keys and switches, 12.7 mm shift (programmable in 180 steps), compressive force 6 N, I2C-Bus controlled; connection pins 5 V, SCL, SDA, MCLR and GND, codeable addresses: 48, 50, 52, 54; for mounting into the test fixture
	DrehgeberMod Electronic rotation unit for potentiometers, switches, rotary position transducers etc. 400 steps per rotation with reference position, resolution per step 0.9 °, holding torque 15 N/cm, control via I^2C-bus, voltage supply 5 VDC, max. 1 A; for mounting into the test fixture

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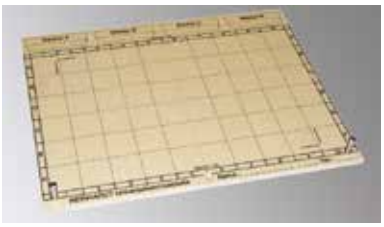
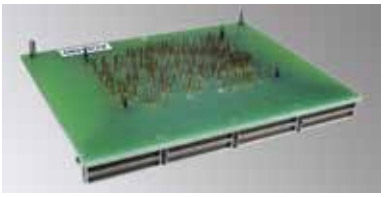
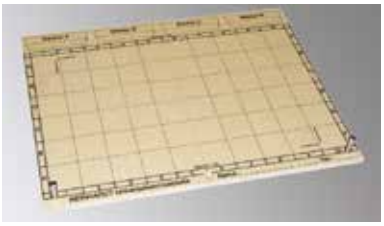
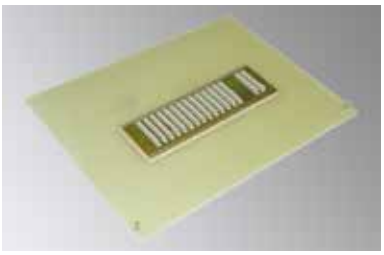
	Pneumatic contact pin for mounting into the fixture, outer diameter without receptacle 3 mm, 5.5 mm in state of rest, working height 12 mm, incl. clamp socket with soldering terminal and push-on receptacle, without magnetic valve, no compressed air feed, max. operating pressure 6 bar
	Spring switch contact pin (extra receptacle is not necessary), outer diameter 2.35 mm
	Box-Tip – 50 pieces of high-quality spring contacts, 100 mil tip, 2 N, already in wire wrap receptacles, oriented in one direction in a plastic box, for fast loading of the feeder **Box-Crown** – 50 pieces of high-quality spring contacts, 100 mil crown, 2 N, already in wire wrap receptacles, oriented in one direction in a plastic box, for fast loading of the feeder **Box-Tip** – 50 pieces of high-quality spring contacts, 75 mil tip, 2 N, already in wire wrap receptacles, oriented in one direction in a plastic box, for fast loading of the feeder **Box-Crown** – 50 pieces of high-quality spring contacts, 75 mil crown, 2 N, already in wire wrap receptacles, oriented in one direction in a plastic box, for fast loading of the feeder
	**Exchange Fixture Plate GRP Yellow** for universal fixture, working area 360 x 230 mm, overall dimensions of the plate 380 x 297 x 8 mm, incl. 4 connectors type R, with 5 connector fastener blocks Vers. 2 and fittings. The exchange plate can hold test pins (up to 300) and connectors. For exchange plate fixtures Type 10, Type 15-p, Type 30, Type 32, Type 42, Type 42A, Type 45A, Type 145B, Type 46D and Type 62
	**Exchange Fixture Plate GRP Green** for universal fixture, working area 360 x 230 mm, overall dimensions of the plate 380 x 297 x 8 mm, incl. 4 connectors type R, with 5 connector fastener blocks Vers. 2 and fittings. The exchange plate can hold more than 300 test pins and connectors. For exchange plate fixtures Type 10, Type 15-p, Type 30, Type 32, Type 42, Type 42A, Type 45A, Type 145B, Type 46D and Type 62
	**Exchange Fixture Plate 147 GRP Yellow** for fixture Type 147, working area 360 x 230 mm, overall dimensions of the plate 380 x 297 x 8 mm, incl. 4 connectors and fittings. The exchange plate can hold test pins (up to 300) and connectors, incl. acrylic needle cover. **Exchange Fixture Plate 147 GRP Green** for fixture Type 147, working area 360 x 230 mm, overall dimensions of the plate 380 x 297 x 8 mm, incl. 4 connectors and fittings. The exchange plate can hold test pins (more than 300) and connectors, incl. acrylic needle cover.
	Exchange Fixture Plate 242, GRP Yellow, for fixture Type 242, working area 360 x 230 mm, overall dimensions of the plate 380 x 297 x 8 mm, incl. 4 connectors and fittings. The exchange plate can hold test pins (up to 300) and connectors, incl. acrylic needle cover **Exchange Fixture Plate 242, GRP Green**, for fixture Type 242, working area 360 x 230 mm, overall dimensions of the plate 380 x 297 x 8 mm, incl. 4 connectors and fittings. The exchange plate can hold test pins (more than 300) and connectors, incl. acrylic needle cover
	**Exchange Fixture Plate 52 GRP Green** for fixture type 52, working area 670 x 462 mm, overall dimensions of the plate 699 x 529 x 8 mm, incl. 4 connectors and fittings. The exchange plate can hold spring contact pins and connectors. for fixtures Type 52 and Type 52L

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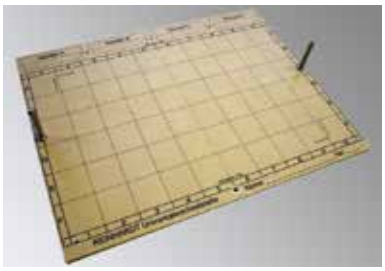
	Exchange Plate GRP 25/125/127 –Exchange plate GRP (yellow) for fixtures Type 25, 125, 127 and ATS-UKMFT 625/627, working area 191.5 x 172 mm, overall dimensions of the plate 217.6 x 230 x 8 mm, incl. 2 connectors and fittings, can be used with spring contact pins (max. 200) and connectors
	Exchange Plate GRP 105 – Exchange plate GRP (yellow) for fixture Type 105, working area 100 x 172 mm, overall dimensions of the plate 119 x 230 x 8 mm, incl. one 64way interchange connector, can be used with spring contact pins (max. 200) and connectors
	Exchange Plate GRP 100 Exchange fixture plate GRP yellow for fixture Type 100, working area 95 x 95 mm, overall dimensions 104 x 134 x 8 mm, incl. one 64way connector, can be used with spring contact pins (max. 200) and connectors **(no picture)**
	**Upper Plate SMT Yellow V 3.0** for max. 300 spring contact pins, incl. 12 pcs plastic retention screws M4 x 40 mm and 2 collecting bolts, for Types 40A, 42A, 45A, 145B-2 and 62 for accepting probes for unsoldered pins or polarity probes, overall dimensions 380 x 297 x 8 mm **Upper GRP exchange plate 147 (yellow)** for fixture type 147 for a maximum of 300 spring contact pins, incl. 12 pieces plastic retention screws M4 x 40 mm, 2 collecting bolts and 1 reinforcement hook, for accepting probes for unsoldered pins or polarity probes, overall dimensions 380 x 297 mm
	Upper GRP Exchange Plate (green) V 3.0, for more than 300 contact pins, for Types 40A, 40B, 42A, 42B and 62 for accepting probes for unsoldered pins or polarity probes, overall dimensions 380 x 297 x 8 mm **Upper GRP exchange plate 147 (green)** for fixture type 147 for more than 300 spring contact pins, incl. 12 pieces plastic retention screws M4 x 40 mm, 2 collecting bolts and 1 reinforcement hook, for accepting probes for unsoldered pins or polarity probes, overall dimensions 380 x 297 mm
	Upper Exchange Plate 52 SMT, V 1.0 for Type 52 and Type 52L, for accepting probes for unsoldered pins or polarity probes, overall dimensions 699 x 489 x 8 mm
	Upper Exchange Plate SMT yellow 25 for fixture Type 25, incl. 12 pcs plastic retention screws M4 x 40 mm, for accepting probes for unsoldered pins or polarity probes, overall dimensions 217.6 x 230 x 8 mm **(no picture)** **Upper Plate SMT 125** – Upper GRP exchange plate for fixture Type 125, Type 127 and ATS-UKMFT 625/627, incl. 12 plastic retention screws M4 x 40, for accepting probes for unsoldered pins or polarity probes, overall dimensions 217.6 x 230 x 8 mm

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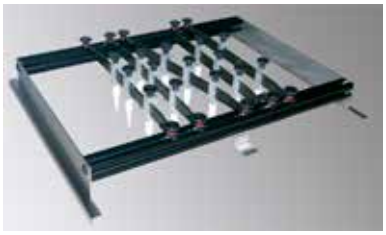
	Upper Plate SMT 105 – Upper exchange plate 105 SMT for fixture Type 105, overall dimensions of the plate 119 x 230 x 8 mm, incl. 9 plastic retention screws M4 x 4
	Retention Exchange Box 4-3 (black) with 5 longitudinal arms and knurled head screws and 15 bow retention devices and knurled head screws for fixtures Type 40A, Type 42A and Type 45A, overall dimensions 420 x 299 mm
	**Retention Exchange Box 42-A3** (black) with 5 longitudinal arms and knurled head screws and 15 bow retention devices and knurled head screws for fixtures Type 42A-3 and Type 62-3, overall dimensions 420 x 299 mm
	Retention Exchange Box 4 (black, no picture) with 4 longitudinal arms and 12 retention pins for Type 40 and 42, overall dimensions 380 x 255 mm **(without picture)**
	Retention Exchange Box 6 with 6 longitudinal arms and 36 retention devices for fixture Type 52 and Type 52L
	Retention Exchange Box 145 – Retention exchange box with 5 longitudinal arms and 15 retention devices for fixture 145A-2 and 145B-2 for easily adjusting the retention pin positions from above
	Retention Exchange Box 147 Retention exchange box with 5 longitudinal arms and 15 retention devices for fixture Type 147 and Type 242 for easily adjusting the retention pin positions from above
	Retention Exchange Box 25 – Retention exchange box (black) with 3 longitudinal arms and 9 retention pins for Type 25A

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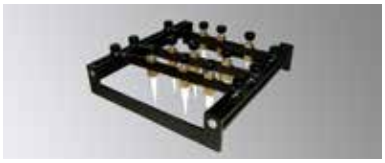
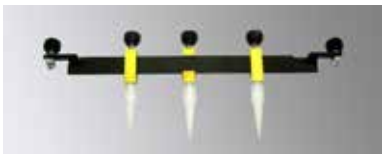
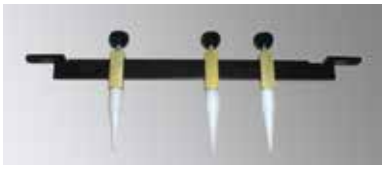
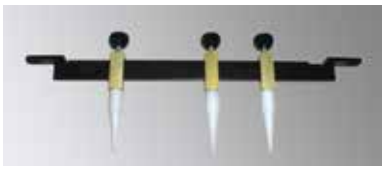
	**Retention Exchange Box 125** – Retention exchange box with 4 longitudinal arms and 12 retention devices for fixture 125B-2, 125A-2 and 125H; for easily adjusting the retention pin positions from above **Retention Exchange Box 105** – Retention exchange box with 3 longitudinal arms and 9 retention devices for fixture 105B-2 and 105A-2; for easily adjusting the retention pin positions from above **(without picture)**
	Retention Exchange Box 127 Retention exchange box with 4 longitudinal arms and 12 retention devices for fixture Type 127, Type 125HV, ATS-UKMFT 625 (4 linear guidings) for easily adjusting the retention pin positions from above
	**Receiver Angle 4–3 –** Receiver angle for retention device incl. 3 retention pins with knurled head screws and 2 slot stones M4, **255 mm long**, can be built into the retention exchange box 4–3 and into the retention exchange box 4–2. The receiver angle can be set at an angle of up to 20° for easily adjusting the retention pin positions and the receiver profile from above. For fixtures Type 40A, 42A, 145, 147 and 242
	**Retention Angle 105-125 –** Receiver angle for retention device incl. 3 retention pins with knurled head screws and 2 slot stones M4, **206 mm long**, can be built into the retention exchange box 105B-2, 105A-2, 125B-2, 125A-2 and 125H. The receiver angle can be set at an angle of up to 20°
	**Retention Angle 125HV-127-627 –** Receiver angle for retention device incl. 3 retention pins with knurled head screws and 2 slot stones M4, **184 mm long**, can be built into the retention exchange box 125HV, 127 and ATS-UKMFT 625 (4 linear guidings). The receiver angle can be set at an angle of up to 20°
	64way Universal Fixture Cable T1 (about 38 cm long, with 2 insulation displacement sockets, fixture interface connector, completely confectioned and tested) for REINHARDT-test fixtures
	Universal Fixture Cable T1 96pol 96way universal fixture cable T1/96 (about 38 cm long, with 2 insulation displacement sockets, fixture interface connector, completely confectioned and tested) for REINHARDT-test fixtures
	Universal Fixture Cable T2 (with 3 insulation displacement sockets, 2 fixture interface connectors, completely confectioned and tested) for REINHARDT-test fixtures
	Extension Cable (64way flat ribbon cable, with 1 insulation displacement socket and 1 insulation displacement connector, completely confectioned and tested), about 50 cm
	Cable 96, 25 cm long, extension cable, 96way, with converter board for 1:1-connection, completely confectioned and tested, 25 cm long

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	Fixture Cable V4 for connecting 1–4 VMX8 high voltage measuring matrix boards in the test fixtures, A-series, e. g. Type 40A, Type 42A, Type 45A Up to 4 high voltage measuring matrix boards are led to one connector for the exchange plate; for ATS-KMFT 670 and PCMFT 620
	Fixture Cable V2 for connecting 1–2 VMX8 high voltage measuring matrix boards in the test fixtures, A-series, e. g. Type 40A, Type 42A, Type 45A Up to 2 high voltage measuring matrix boards are led to one connector for the exchange plate; for ATS-KMFT 670 and PCMFT 620
	Fixture Cable LMX670 – Fixture cable LMX670-4 for connecting a LMX670-4 or LMX670-8 power matrix boards in REINHARDT test fixtures for ATS-KMFT 670
	Fixture Cable HSM for connecting a HSM high voltage-stimulus matrix in the test fixtures, A-series, e. g. Type 40A, Type 42A, Type 145A for ATS-KMFT 670
	Fixture Cable AC670 – Fixture cable AC670 for connecting an AC470 or AC670 board in the REINHARDT-test fixture for ATS-KMFT 670
	Connector fastener block Vers. 2 outside (narrow) – Set (2 pcs), supports up to 4 rows in both push and draw, incl. 4 cylinder head bolt M2.5 x 8 mm which fixes the connectors at the fastener block and 1 fixing screw M2.5 x 14 mm incl. washer which fixes the block on the GRP-exchange plate, for reinforcement of the exchange plate-interface connector field for mounting 64- or 96way male multipoint connectors Type R **Connector fastener block inside (wide) Vers. 2 – Set (3 pcs)**, supports up to 4 rows in both push and draw, incl. 8 cylinder head bolt M2.5 x 8 mm which fix the connectors at the fastener block and 1 fixing screw M4 x 14 mm incl. washer which fixes the block on the GRP-exchange plate, for reinforcement of the exchange plate-interface connector field for mounting 64- or 96way male multipoint connectors Type R
	Female connector 64 Wrap – 64way female multipoint connector with wrapped cables AWG 30, about 400 mm long. This connector is plugged onto the male connector 64 of the GFK-universal exchange plate and reduces your work on the wiring between device under test and fixture.
	Female connector 96 Wrap – 96way female multipoint connector with wrapped cables AWG 30, about 400 mm long. This connector is plugged onto the male connector 96 of the GFK-universal exchange plate and reduces your work on the wiring between device under test and fixture.

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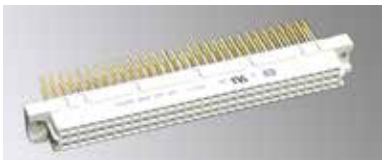
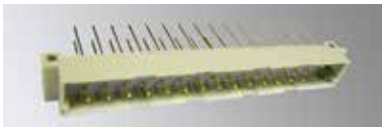
Accessories and Spare Parts for REINHARDT-Test Fixtures

	Male connector 96 gilded C 96way male connector, wire wrap, type C (cross-drilled), gilded on both mating areas, for the interface of the universal fixture (towards test system) for fixtures Type 40A, 42A, and 62L and for the exchange plate of the universal fixture
	Male connector 96 gilded R 96way male connector, wire wrap, type R (face drilled), gilded on both mating areas, for the interface of the universal fixture (towards test system) of fixtures Type 145A, 52L, 62A and 62C, and for the exchange plate of the universal fixture, from 11/2012 with connector fastener block version 2
	**Female connector 96 gilded C** 96way female connector, wire wrap, type C (face drilled), gilded, also wire wrap-post, for the test system interface
	High Current Pin Contact – male connector with 8 high-current contacts and 24 common contacts for mounting on the REINHARDT-test fixture (test system interface and exchange plate) of the A-series, e. g. Type 42A, for connecting the LMX670-board
	High-current Contact Socket – female connector with 8 high-current contacts and 24 common contacts for mounting on the interface of the exchange plate (fixture side, not exchange plate) for REINHARDT-fixture, is necessary if e. g. an LMX670-board is used
	HV-Connector 32 R – 32way high voltage connector, type R for universal exchange plate and fixture interface to test system, such as Type 40A/B, Type 42A/B, Type 45A/B, Type 145A
	**HV-Connector 32 C** – 32way high voltage connector, type C (cross-drilled)
	HV-Socket 32 32way high voltage socket, type C (cross-drilled) for universal exchange plate interface in the test fixture, such as Type 40A/B, Type 42A/B, Type 45A/B, Type 145A
	Connector 10 – 10way power connector **Cover for 10-way Connector** – Cover for 10way power connector
	HTS-Connector – Set of HTS10 fixing angles incl. 10pole power connector (mounted to exchange plate – for Type 42A Vers. 2.0 and Type 40A only

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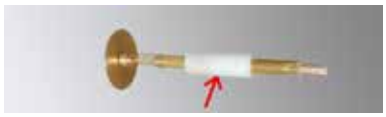
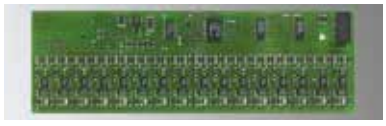
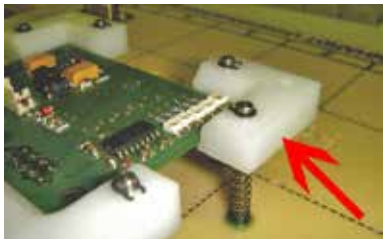
Accessories and Spare Parts for REINHARDT-Test Fixtures

	HTS-Socket – Set of HTS10 fixing angles incl. 10pole power socket (mounted on fixture) – for Type 42A Vers. 2.0 and Type 40A only
	Probe for SMT solder defect or for polarity test, diameter 2.4, 5, 7, 10, 13, 20, 30 mm incl. NF cable – Please name the requested diameter when you order
	**Spacing Piece** for fixing the distance of the probe for SMT solder defect test and polarity test
	Board Polarity Board with 16 channels and evaluation electronics for discerning polarity of capacitors, without cabling
	**Board 16 Channels** Board with 16 channels for finding SMT solder defects, without cabling
	Reference Pin 3 – Set (5 pcs) spring suspended, for collector drillings from 1.6 to 4.7 mm, diameter of the plate drilling 5 mm, tolerance +0.0/-0.05 mm
	Reference Pin 4 – Set (5 pcs) spring suspended, for collector drillings from 4.5 to 7.8 mm, diameter of the plate drilling 5 mm, tolerance +0.0/-0.05 mm
	Board Centring and Guiding – Set (5 pcs) for the PCB-contours
	Guiding Angle – Set (5 pcs) for placing the board easily in the fixture, incl. 2 screws M3 x 6 mm
	**Guiding Edge** for the outer edges of PCBs for board centring and guiding

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Accessories and Spare Parts for REINHARDT-Test Fixtures

	Guiding brink spring-suspended, for straight outer contours of PCBs, for board centring and guiding
	Retention Pin 10 x 45 mm – Set (10 pcs) with cage nut for receiver profile, for fixtures Type 13, Type 25, Type 40, Type 42, Type 45 and Type 52
	Plastic Retention Screws M4 x 40, white, nut M4, set of 10 pieces
	Plastic Retention Pin 15.5, plastic retention pin 15.5 mm long, incl. fixing screw M3 x 12, set of 10 pieces **Plastic Retention Pin 17** plastic retention pin 17 mm long, incl. fixing screw M3 x 12, set of 10 pieces **Plastic Retention Pin 18.5** plastic retention pin 18.5 mm long, incl. fixing screw M3 x 12, set of 10 pieces
	Bow Retention Pin 45 – Set (5 pcs), with 45 mm long plastics retention pin, complete with knurled head screw, for fixtures Type 40A, 40B, 42A, 42B, 42C, 45A, 45B, 105A/B-2, 125A/B-2, 127, 145A/B-2 and 147
	Set of Changers Lightweight (t=4) for changing the exchange plates more comfortably **Reinforced set of changers** (t=6) for changing and inserting the exchange plates for fixture type 42A version 2.0 more comfortably (recommended if the exchange plate holds more than 10 connectors)
	Grip for Push Rod – Set (2 pcs) Spare part for fixtures Type 9 to Type 62 (except Type 52)
	Screw M5 – Set (2 pcs), total length 16.6 mm, with lateral inbus, interior allen wrench 3 mm, incl. slot stone, for locking fixtures Type 105, Type 125, Type 145, Type 40A, Type 42A, Type 46D, Type 62C and Type 62L

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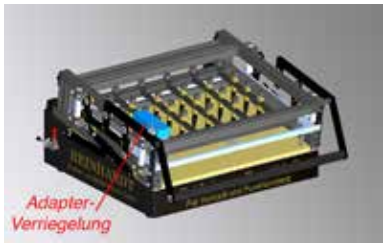
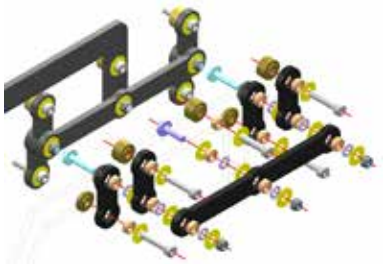
Accessories and Spare Parts for REINHARDT-Test Fixtures

	Fixture Connector Fixing Plate – Set (10 pcs) with screw for fixing (floating) the fixture interface connectors; for fixture types 10, 13, 15, 40, 42, 52 (not Type 52L), 62C, 62L
	Add-on kit for contacting from below and above with Fixture Type 42A incl. fixing material Note: Only for those fixtures with an operating lever which is tapered at the front
	**Safety lock** – device for fixture Type 42A-2 and Type 42A-3, electro-magnetic operation, 12 VDC, ±20 %, max. 450 mA prevents unintentional or unauthorised opening of the fixture and avoids possible risks of injuries, when voltages are applied to the DUT or the destruction of the DUT, when the fixture is opened during the test procedure
	**Conversion kit for ball bearings pivots** for fixture Types 42A, 62L, short lever, consists of 1 set of turned parts (62 components) and 26 ball bearings 10/5/4
	Gas Strut 50N No. 082406 – Set (2 pcs) Spare part for fixtures Type 105B,125B and 145B **Gas Strut 50N No. 082473 – Set (2 pcs)** Spare part for fixtures Type 25A, 43A and 45A (top) **Gas Strut 100N No. 082414 – Set (2 pcs)** Spare part for fixtures Type 40, Type 42, Type 40A, Type 40B, Type 42A and Type 42B **Gas Strut 100N No. 082570 – Set (2 pcs)** Spare part for fixtures Type 45A (bottom) and Type 52
	Manual Tool for Pressing in Spring Contacts 100 mil, thread version, for System for Building Fixtures Vers. 1.0
	Insertion Head 100 mil without base body, for AAE-CNC 2 Fixture Production System and for Equipment for manually pressing in spring contacts **Insertion Head 75 mil** without base body, for AAE-CNC 2 Fixture Production System and for Equipment for manually pressing in spring contacts **Insertion Head 75 mil** without base body, manual **Base Body for Insertion Head 100 mil or 75 mil**
	Manual Tool for Pressing in Reference Pin 3 and Reference Pin 4

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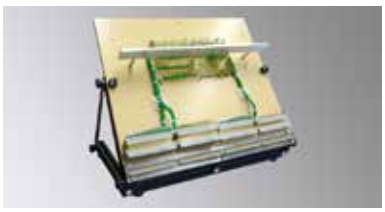
Accessories and Spare Parts for REINHARDT-Test Fixtures

	Manual Tool for Pressing in Spring Contacts incl. receptacle, 100 mil
	Equipment for manually pressing in spring contacts Vers. 2.0, XYZ Equipment for manually pressing in spring contacts 100 mil, 75 mil, 50 mil incl. receptacle into the fixture exchange plate and guiding device for creating angular threads for guiding PCBs, travel X-axis 390 mm, Y-axis 310 mm, cradle for REINHARDT-Universal exchange plate with overall dimensions 380 x 297 x 8 mm
	Drill, 46 mm long, Ø 1.70 mm, for drilling holes for additional spring contact pins Ingun 100 mil with our system for building fixtures at a later time (The pins are placed manually). **Drill**, 46 mm long, Ø 1.75 mm, for drilling holes for additional spring contact pins IDI 100 mil with our system for building fixtures at a later time (The pins are placed manually). Please indicate if 3 mm or 1/8"-shaft when you order. **Drill 1.75 1/8"** Twist drill, solid carbide drill, Ø 1.75 mm, shaft 1/8", about 38 mm long, for system for building fixtures for drilling holes of 1/10"-contact pin receptacles IDI **Drill 1.70 1/8"** Twist drill, solid carbide drill, Ø 1.70 mm, shaft 1/8", about 38 mm long, for system for building fixtures for drilling holes of 1/10"-contact pin receptacles Ingun **Drill 1.33 1/8"** Twist drill, solid carbide drill, Ø 1.33 mm, shaft 1/8", about 38 mm long, for system for building fixtures for drilling holes of 75 mil-contact pin receptacles Ingun **Drill 0.98 1/8"** Twist drill, solid carbide drill, Ø 0.98 mm, shaft 1/8", about 38 mm long, for system for building fixtures for drilling holes of 50 mil-contact pin receptacles IDI **Drill 5.0 1/8"** VHM-drill, solid carbide drill, Ø 5.0 mm, shaft 1/8", about 38 mm long, for system for building fixtures for drilling holes of e.g. reference pins **Milling cutter 3 mm** for Fixture Production System, 3 mm, shaft 1/8 “
	Starterkit for building fixtures manually, consisting of: 1 ergonomic frame for holding the fixture plate 380 x 297 x 8 mm, 1 base body for insertion head, 1 insertion head 100 mil, 1 insertion head 75 mil for pressing in the pins, 6 guiding angles with 6 sets of screws, 4 guiding edges, 2 guiding brinks, 4 connectors 96 wrap, 4 reference pins 3, 1 reference pin 4, 1 manual tool for pressing in reference pin 3, 3 boxes with 50 crowns 100 mil each (total 150) in receptacles, 5 boxes with 50 tips 100 mil each (total 250) in receptacles, 1 box with 50 tips 75 mil in receptacles, 20 contact pins tips 50 mil, 20 receptacles 50 mil, 2 drills 1.70 mm for standard 1/10” (100 mil)-pin receptacles, 2 drills 1.33 mm for 75 mil receptacles, 2 drills 0.98 mm for 50 mil-receptacles, 1 adjustable twisting pliers for screwing in taps, 1 drill 5.0 mm for reference pin 3, 1 drill 3.0 mm for guiding edge, 1 drill 2.5 mm for tapping threads 3, 1 manual deburrer, 1 machine screw tap M3 for guiding angles, 1 guide for tap, 5 ml Loctite 222 glue
	**WireWrap Frame** – ergonomic frame for holding the fixture plate with the overall dimensions 380 x 297 x 8 mm; protects the spring contact pins and the upper side of the fixture plate in wiring **Exchange plate, connectors etc. are not included!**
	Weller WireWrap-Pistol, incl. automatic insulation, with stress core and guide sleeve for MTZ30-130 WireWrap-wire

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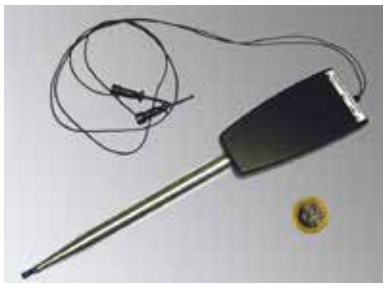
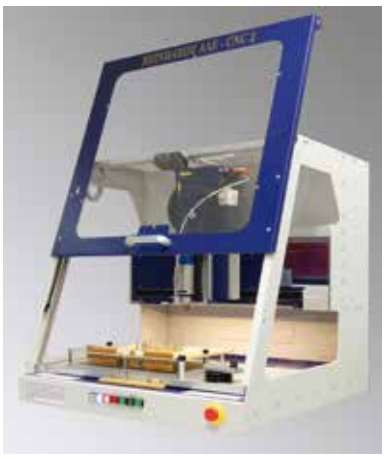
Accessories and Spare Parts for REINHARDT-Test Fixtures

	WireWrap-wire MTZ 30-130, 1,000 m reel
	Test Fixture Wire Finder TFWF 96 for individual fixture wiring, in case you have to duplicate a fixturing or want to use already existing test point designations for the RMX-measuring matrix channels. In this case you have to wire the contact pins to certain RMX-channels and wire both ends of the wrap-connection to the correct positions: The cable of a RMX-measuring matrix wiring is touched with the search probe and the respective RMX-channel is shown on the display. For that you connect the TFWF 96 Test Fixture Wire Finder to the connector of the first RMX-measuring matrix and then touch any wire end with the search probe. The resp. channel is shown on the display and you only connect the wire with the respective contact pin.
	**Short Finder Probe SFP 37** Inductive short finder for localising faults on loaded PCBs, incl. 3.7 V Li-Ion accu with up to 1,000 mAh for up to 7 hours use, connection clips and charger
	**AAE-CNC 2 Semi-automatic Fixture Production System:** CNC-drilling center (desk-top unit, travel x: 395 mm, y: 300 mm, usable placing area x: 395 mm, y: 244 mm; drilling machine, hard- and software for controlling the CNC-machine, device for automatic picking and placing of the receptacles and spring contact pins, drill, clamping device for the bed-of-nails plate/exchange plate of the fixture), security switch, wiring, magazine (100 mil crown, 100 mil tip and 75 mil tip) for 625 receptacles incl. spring contact pins, dust hood, suction device (without vacuum-cleaner). For building fixtures you need the software for taking over Gerber data.
	Underframe for AAE-CNC 2 Semi-automatic Fixture Production System incl. 4 bases adjustable in height, about 770 mm wide, 835 mm deep, 805 mm high
	Vacuum cleaner for AAE-CNC 21 Fixture Production System Operating voltage: 230 V, 50 Hz

IE & OE Specifications subject to change without prior notice !
12/2014

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